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~~Solids: Lesson 3 - Shear Stress, Single and Double Shear ExampleSolids: Lesson 23 - Beam Bending, Shear Moment Diagram Mechanics of Materials CH 5 Analysis and Design of Beams for Bending PART 1 Mechanical Engineering: Ch 14- Strength of Materials (1 of 43) Basic Definition Solids: Lesson 14 - Axial Elongation Due to Axial Load Example Mechanics of Materials CH 2 Stress and Strain – Axial Loading PART 2 Mechanics of Materials CH 7 Transformations of Stress and Strain PART 1 Chapter 11 | Energy Methods | Mechanics of Materials 7 Edition | Beer, Johnston, DeWolf, Mazurek Mechanics and Materials I - Lecture 4 Solids: Lesson 1 – Intro to Solids, Statics Review Example Problem Mechanics of Materials-Lecture-16-Equilibrium of Beams Statics Mechanics of Materials Mishra Phoolendra Mechanics and Materials I - Lecture 1 Chapter 2 - Force Vectors Statics Mechanics Of Materials Beer~~

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ABOUT THE BOOK Beer and Johnston's Mechanics of Materials is the uncontested leader for the teaching of solid mechanics. Used by thousands of students around the globe since publication, Mechanics of Materials, provides a precise presentation of the subject illustrated with numerous engineering examples that students both understand and relate to theory and application. The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course. From the detailed examples, to the homework problems, to the carefully developed solutions manual, you and your students can be confident the material is clearly explained and accurately represented. McGraw-Hill is proud to offer Connect with the seventh edition of Beer and Johnston's Mechanics of Materials. This innovative and powerful system helps your students learn more effectively and gives you the ability to assign homework problems simply and easily. Problems are graded automatically, and the results are recorded immediately. Track individual student performance - by question, assignment, or in relation to the class overall with detailed grade reports. ConnectPlus provides students with all the advantages of Connect, plus 24/7 access to an eBook Beer and Johnston's Mechanics of Materials, seventh edition, includes the power of McGraw-Hill's LearnSmart--a proven adaptive learning system that helps students learn faster, study more efficiently, and retain more knowledge through a series of adaptive questions. This innovative study tool pinpoints concepts the student does not understand and maps out a personalized plan for success. Connect Engineering is currently offered to support the U.S. edition which contains both imperial and metric units. For more information about Connect, please contact your sales representative. New to this edition: Connect is available with the seventh edition of Beer and Johnston, Mechanics of Materials. This innovative and powerful new system helps your students learn more efficiently and gives you the ability to assign homework problems simply and easily. Problems are graded automatically, and the results are recorded immediately. Track individual student performance--by question, assignment, or in relation to the class overall with detailed grade reports. ConnectPlus provides students with all the advantages of Connect, plus 24/7 access to an eBook. McGraw-Hill's LearnSmart is a proven adaptive learning program that helps students learn faster, study more efficiently, and retain more knowledge through a series of adaptive questions. This innovative study tool pinpoints concepts the student does not understand and maps out a personalized plan for success. S.M.A.R.T. Problem-Solving Method In this edition, Mechanics of Materials example problems are solved using S.M.A.R.T.--Strategy, Modeling, Analysis, Reflect, and Think. This concrete strategy helps students build a strong set of habits for successful completion and execution of the course's many problems.

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The approach of the Beer and Johnston series has been appreciated by hundreds of thousands of students over decades of engineering education. Maintaining the proven methodology and pedagogy of the Beer and Johnson series, Statics and Mechanics of Materials combines the theory and application behind these two subjects into one cohesive text focusing on teaching students to analyze problems in a simple and logical manner and, then, to use fundamental and well-understood principles in the solution. The addition of Case Studies based on real-world engineering problems provides students with an immediate application of the theory. A wealth of problems, Beer and Johnston's hallmark sample problems, and valuable review and summary sections at the end of each chapter, highlight the key pedagogy of the text.

Vector Mechanics for Engineers: Statics provides conceptually accurate and thorough coverage, and its problem-solving methodology gives students the best opportunity to learn statics. This new edition features a significantly refreshed problem set. Key Features Chapter openers with real-life examples and outlines previewing objectives Careful, step-by-step presentation of lessons Sample problems with the solution laid out in a single page, allowing students to easily see important key problem types Solving Problems on Your Own boxes that prepare students for the problem sets Forty percent of the problems updated from the previous edition

Publisher description

The first book published in the Beer and Johnston Series, Mechanics for Engineers: Statics is a scalar-based introductory statics text, ideally suited for engineering technology programs, providing first-rate treatment of rigid bodies without vector mechanics. This new edition provides an extensive selection of new problems and end-of-chapter summaries. The text brings the careful presentation of content, unmatched levels of accuracy, and attention to detail that have made Beer and Johnston texts the standard for excellence in engineering mechanics education.

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